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P	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/028,385	12/21/2001	Joseph Mechan	US 010603	4892
	24737	7590 09/27/2005		EXAMINER	
	PHILIPS IN' P.O. BOX 300	TELLECTUAL PRO	NGUYEN, DUNG X		
	BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
				2638	

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>						
		Application No.	Applicant(s)				
	Office Action Commons	10/028,385	MEEHAN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Dung X. Nguyen	2631				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🛛	Responsive to communication(s) filed on 21 December 2001.						
·		s action is non-final.					
3)□							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠	 4) ☐ Claim(s) 1 - 22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 17 - 19 is/are allowed. 6) ☐ Claim(s) 1 - 15 and 2 - 22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
·							
Applicat	ion Papers						
 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 21 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) 🔲 Notic 3) 🔯 Inforr	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) te of Draftsperson's Patent Drawing Review (PTO-948) te of Draftsperson's Patent(s) (PTO-1449 or PTO/SB/08) tr No(s)/Mail Date 3/10/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - (1) The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1 15 and 20 22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed.

Regarding claims 1, 10, and 20, respectively. It is not clear from specification or diagrams how the antennas are configured to perform the function. Figure 2 does not address this limitation. While on page 7 of the specification, lines 11 - 15 discloses that both antennas are configured to receive a portion of the preamble, it does not disclose how this is achieved.

Regarding claim 2 - 9, 11 - 15, 21, and 22 are associated with claims 1, 10, and 20, respectively, so they are rejected as well.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Claim 10 recites the limitation "the header information" as recited in line 4. There is

insufficient antecedent basis for this limitation in the claim.

Allowable Subject Matte

5. Claims 17 - 19 are allowed. The following is a statement of reasons for the indication of

allowable subject matter:

Regarding to the claimed invention, the prior art of record fails to show or render obvious

of a method and its corresponding apparatus for enhancing the signal reception of a digital

wireless receiver, comprising a processing unit for processing the preamble information of

incoming signals, wherein a first predetermined portion of the preamble information is applied to

a first antenna and a second predetermined portion of the preamble portion is applied to a second

antenna to produce a plurality of processed signals, that the plurality of processed signals is

compared to a predefined preamble sequence to obtain a mean-square error (MSE) for the

respective antenna.

Shen et al. (US patent # 6,847,810 B2) and Mahany (US patent # 5,748,676) fail to

calculate a mean-square error (MSE) for the first preamble sequence received from the first

antenna and the second preamble sequence received from the second antenna.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Shen et al. (US patent # 6,847,810 B2) discloses the unified antenna diversity switching system for TDMA-based telephones.

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Mahany (US patent # 5,478,676) discloses a network utilizing modified preambles that support antenna diversity.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung X. Nguyen whose telephone number is (571) 272-3010. The examiner can normally be reached on Monday through Friday from 8:00 AM to 17:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Vanderpuye Kenneth N. can be reached on (571) 272-3078. The fax phone numbers for this group is (571) 273-3021.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

DXN

August 17, 2005

KENNY DE VANDERPUYE PRIMARY EXAMINER